

IT Corporation
3347 Michelson Drive, Suite 200
Irvine, CA 92612
Telephone: 949-261-6441
Fax: 949-474-8309



December 17, 2001

California Regional Water Quality Control Board
Los Angeles Region
320 West 4th Street, Suite 200
Los Angeles, CA 90013
ATTN: Steven Hariri

RE: Soil Removal Activities
Jervis B. Webb of California
5030 Firestone Boulevard and 9301 Rayo Avenue
South Gate, CA
SLIC No. 744

Dear Mr. Hariri:

This letter report summarizes the soil removal activities performed by IT Corporation at the Jervis B. Webb of California (Webb) facility on December 14, 2001. In accordance with our Work Plan dated December 12, 2001, which memorialized our conversations and direction from you, we drilled three large diameter borings and removed contaminated soil successfully from each boring at the locations specified by the Board. Pursuant to the Board's direction, a confirmation sample was taken at the bottom of each boring.

Background

IT sampled five confirmation borings (CB-1 to CB-5) at the Webb site on September 13-14, 2001, in order to meet the Los Angeles Regional Water Quality Control Board's (RWQCB) requirements for soil closure. Pursuant to the RWQCB letter response dated December 12, 2001, the Board directed that the elevated levels of TCE in borings CB-3 and CB-4 be removed in order to achieve soil closure. In addition, the RWQCB required the 0.88 mg/kg of hexavalent chromium found previously by EKI in boring B-4 at 10.5 feet be removed.

FIELD WORK

On December 14, 2001, IT drilled three large diameter soil borings, designated CB-3A, CB-4A, and CB-1A, immediately adjacent to confirmation borings CB-3 and CB-4 and EKI Boring B-4, respectively. The borings were drilled using a limited access (low overhead) hollow stem auger rig, since the borings were located inside the Firestone Boulevard building, which has an overhead clearance of about 14 feet. The borings were initially drilled using 6-inch diameter augers and then reamed using 12-inch diameter augers. Boring CB-3A was drilled to a final depth of 36 feet, boring CB-4A to a depth of 37 feet, and boring CB-1A to 18 feet.



Per your request, confirmation soil samples were collected at the bottom of each borehole using a split spoon sampler equipped with brass sleeves. Other confirmation samples were collected to ensure that all elevated levels of TCE and/or hexavalent chromium had been removed from the boring. Samples to be analyzed for VOCs were extracted from the brass sleeve in the field using an Encore™ sampler.

During drilling, the field geologist monitored the headspace of the soil cuttings using a calibrated photo-ionization detector (PID) and logged the readings onto a boring log. The geologist also recorded the relative percentages of sand, silt, and clay, soil color, density, odor, moisture content, and any unusual observations. Copies of the soil boring logs are provided in Appendix A. Upon completion of sampling, the boreholes were backfilled with bentonite chips and saturated with water.

Samples from CB-3A and CB-4A were analyzed for VOCs (EPA Method 8260B) on a 24-hour turnaround by Calscience Environmental Laboratories, Inc., a State-certified laboratory. The sample from CB-1A was analyzed for hexavalent chromium (EPA 7196A) and total chromium (EPA 6010B) on a 24-hour basis. Proper chain of custody procedures were followed.

Laboratory Results

The results of the soil confirmation samples collected from the bottom of each boring are summarized in Table 1. The samples analyzed for VOCs (EPA 8260B) indicated no detectable TCE (< 2 ug/kg) in boring CB-4A at 37 feet and 24 ug/kg of TCE in boring CB-3A at 36 feet. No VOCs other than TCE were detected in either boring.

Hexavalent chromium was found in boring CB-1A at 18 feet depth at a level of 0.24 mg/kg, which is below EPA's Preliminary Remediation Goal (PRG) for industrial soil (64 mg/kg) and residential soil (30 mg/kg) and approximates the California modified PRG (0.20 mg/kg). In addition, a total chromium level of 14.1 mg/kg was detected in this sample. This concentration is much less than the EPA industrial PRG (450 mg/kg) and residential PRG (210 mg/kg) and within the normal background level for total chromium in the soil.

Waste Disposal

The soil cuttings generated by the drilling were contained in 55-gallon drums, labeled, and a drum inventory prepared to identify the contents of each (by footage). A total of 12 drums of soil cuttings were generated by this investigation. The soil is currently being profiled for disposal at a permitted soil disposal facility. The soil will be scheduled for offsite disposal as soon as possible. Documentation of the soil disposal will be provided to the RWQCB under separate cover when the manifests become available.



Request for Soil Closure

Based on the successful removal of soil containing elevated levels of TCE and hexavalent chromium from the three borings of concern, we have completed the last remaining requirement for closure of the site. Therefore, we are requesting soil closure for the Webb site.

Schedule

In accordance with our previous discussion and correspondence, we appreciate the Board's efforts to issue the soil closure letter by Wednesday, December 19, 2001, to meet the requirements of the property transfer.

Please feel free to contact Gary Cronk at 949-660-7511 should you have any questions or comments regarding this report.

Sincerely,
IT Corporation

Gary Cronk, P.E.
Sr. Project Manager



Enclosures:

Figure 1: Confirmation Soil Boring Locations

Table 1: Summary of Analytical Results

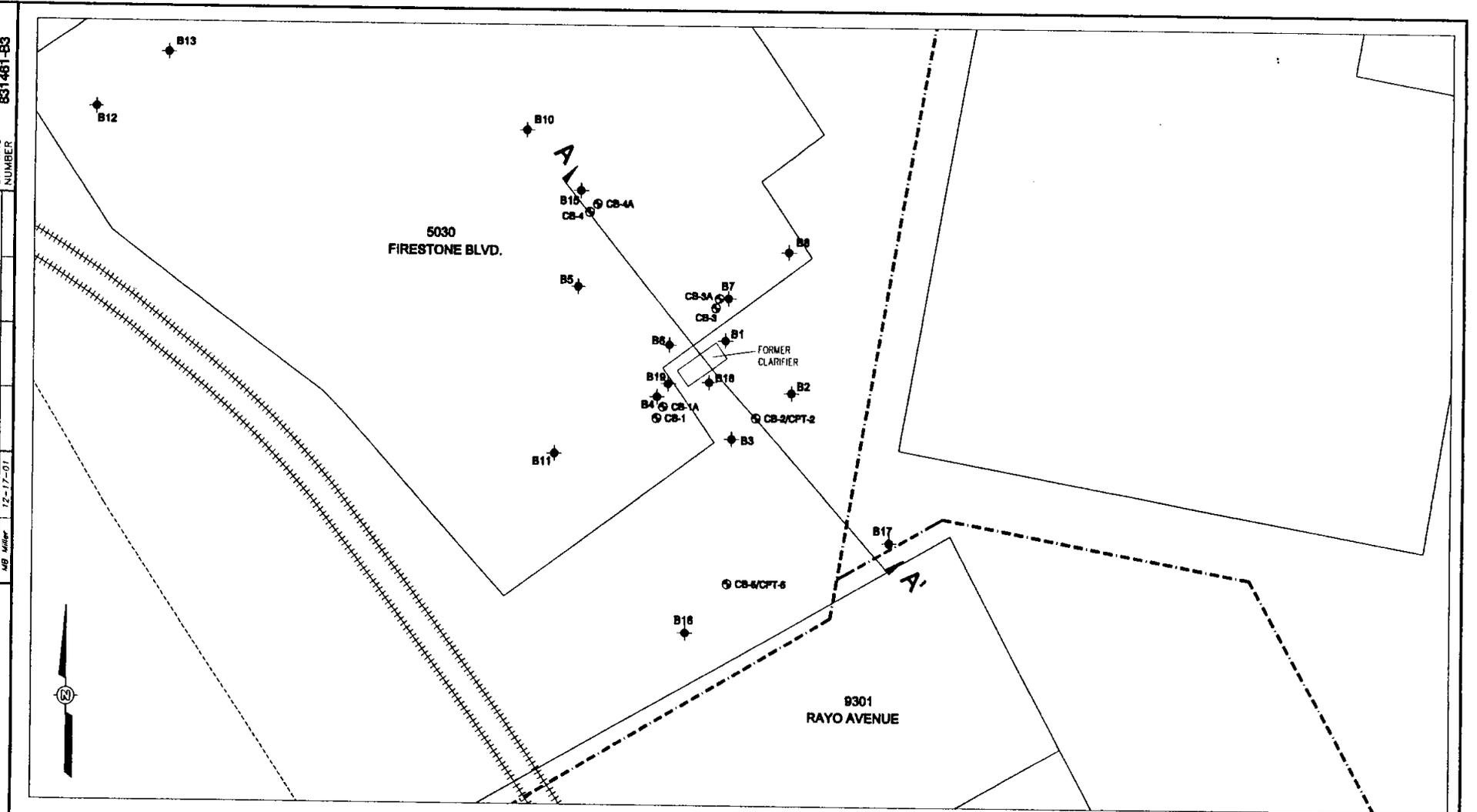
Appendix A: Soil Boring Logs

Appendix B: Laboratory Analytical Reports and Chain of Custody

cc: Dennis Dickerson, RWQCB
Arthur Heath, RWQCB
Rebecca Chow, RWQCB
Mike Farley, Jervis B. Webb
Michael Feeley, Latham & Watkins
Gene Lucero, Latham & Watkins

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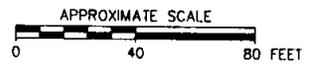
DRAWN BY MB Miller
CHECKED BY T2-17-01
APPROVED BY
DRAWING NUMBER 831481-B3



LEGEND

- CB-1 ⊙ Confirmation Boring Location
- B1 ◆ Soil Boring Location
- A-A' Geologic Cross Section Locations
- Flood Control District Assessment
- - - Property Line
- ++++ Union Pacific Rail Flood

NOTE: All locations are approximate.



JERVIS B. WEBB OF CALIFORNIA

FIGURE 1
CONFIRMATION SOIL BORING LOCATIONS

JERVIS B. WEBB OF CALIFORNIA
5030 FIRESTONE BOULEVARD
SOUTH GATE, CALIFORNIA

Table 1.

Boring No.	Depth (ft)	TCE (ug/kg)	Hexavalent Chromium (mg/kg)	Hex. Chromium Residential Soil PRG (mg/kg)	Total Chromium (mg/kg)	Total Chromium Residential Soil PRG (mg/kg)
CB-3A	36	24	—	—	—	—
CB-4A	37	< 2	—	—	—	—
CB1A	18	—	0.24	0.2*	14.1	210

Footnotes:

TCE = trichloroethylene

PRG = EPA's Preliminary Remediation Goal for Residential Soil

* = California Modified PRG

APPENDIX A
SOIL BORING LOGS

Dec 20, 2001 - 16:32:12 I:\IT CORP\Jervis Webb\log\CB1A.dwg

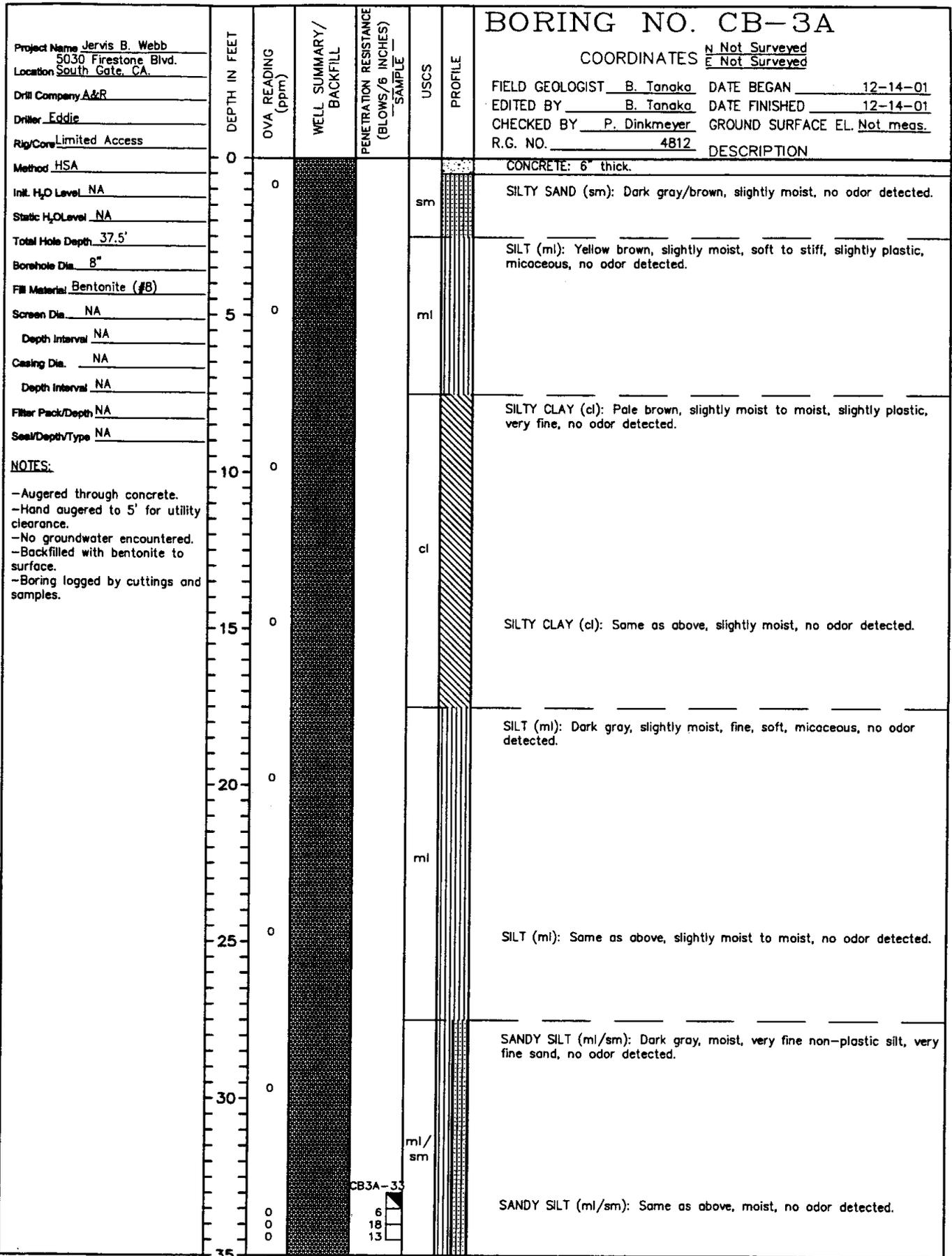
Project Name <u>Jervis B. Webb</u> Location <u>5030 Firestone Blvd. South Gate, CA.</u> Drill Company <u>A&R</u> Driller <u>Eddie</u> Rig/Core <u>Limited Access</u> Method <u>HSA</u> Init. H ₂ O Level <u>NA</u> Static H ₂ O Level <u>NA</u> Total Hole Depth <u>19.5'</u> Borehole Dia. <u>8"</u> Fill Material <u>Bentonite (#8)</u> Screen Dia. <u>NA</u> Depth Interval <u>NA</u> Casing Dia. <u>NA</u> Depth Interval <u>NA</u> Filter Pack/Depth <u>NA</u> Seal/Depth/Type <u>NA</u> NOTES: - Augered through concrete. - Hand augered to 5' for utility clearance. - No groundwater encountered. - Backfilled with bentonite to surface. - Boring logged by cuttings and samples.		DEPTH IN FEET	OVA READING (ppm)	WELL SUMMARY / BACKFILL	PENETRATION RESISTANCE (BLOWS/6 INCHES) - SAMPLE -	USCS	PROFILE	BORING NO. CB-1A	
								COORDINATES	N <u>Not Surveyed</u> E <u>Not Surveyed</u> FIELD GEOLOGIST <u>B. Tanaka</u> DATE BEGAN <u>12-14-01</u> EDITED BY <u>B. Tanaka</u> DATE FINISHED <u>12-14-01</u> CHECKED BY <u>P. Dinkmeyer</u> GROUND SURFACE EL. <u>Not meas.</u> R.G. NO. <u>4812</u> DESCRIPTION
	0						CONCRETE: 3" thick.		
	5					sm	SILTY SAND (sm): Dark brown, slightly moist, medium dense, very fine grained, micaceous, no odor detected.		
	10					cl	SILTY CLAY (cl): Yellow brown, moist, soft, very fine grained, micaceous, no odor detected.		
	15						SILTY CLAY (cl): Same as above, slightly moist, no odor detected.	CB1A-15 8 12 16	
	20						SILTY CLAY (cl): Same as above, slightly moist, no odor detected.	CB1A-18 10 12 14	
	20						TOTAL DEPTH = 19.5 FEET		
	25								
	30								
	35								

PROJECT NO. 831461
 CLIENT: JERVIS B. WEBB
 SEE LEGEND FOR LOGS AND TEST PITS
 FOR EXPLANATION OF SYMBOLS AND TERMS



003046

Dec 20, 2001 - 16:33:13 I:\IT CORP\Jervis Webb\log\CB3A-1.dwg



PROJECT NO. 831461
 CLIENT: JERVIS B. WEBB
 SEE LEGEND FOR LOGS AND TEST PITS
 FOR EXPLANATION OF SYMBOLS AND TERMS



Dec. 20, 2001 - 16:33:51 I:\IT CORP\Jervis Webb\log\CB3A-2.dwg

<p>Project Name <u>Jervis B. Webb</u> Location <u>5030 Firestone Blvd. South Gate, CA.</u> Drill Company <u>A&R</u> Driller <u>Eddie</u> Rig/Core <u>Limited Access</u> Method <u>HSA</u> Init. H₂O Level <u>NA</u> Static H₂O Level <u>NA</u> Total Hole Depth <u>37.5'</u> Borehole Dia. <u>8"</u> Fill Material <u>Bentonite (#8)</u> Screen Dia. <u>NA</u> Depth Interval <u>NA</u> Casing Dia. <u>NA</u> Depth Interval <u>NA</u> Filter Pack/Depth <u>NA</u> Seal/Depth/Type <u>NA</u></p> <p><u>NOTES:</u> -Augered through concrete. -Hand augered to 5' for utility clearance. -No groundwater encountered. -Backfilled with bentonite to surface. -Boring logged by cuttings and samples.</p>	DEPTH IN FEET 35 40 45 50 55 60 65 70	OVA READING (ppm) 000	WELL SUMMARY/ BACKFILL 	PENETRATION RESISTANCE (BLOWS/6 INCHES) - SAMPLE CB3A-36 14 32 40	USCS sp	PROFILE 	<h2 style="text-align: center;">BORING NO. CB-3A</h2> <p style="text-align: center;"> COORDINATES <u>N Not Surveyed</u> <u>E Not Surveyed</u> </p> <p> FIELD GEOLOGIST <u>B. Tanaka</u> DATE BEGAN <u>12-14-01</u> EDITED BY <u>B. Tanaka</u> DATE FINISHED <u>12-14-01</u> CHECKED BY <u>P. Dinkmeyer</u> GROUND SURFACE EL. <u>Not meas.</u> R.G. NO. <u>4812</u> DESCRIPTION </p> <p style="text-align: center;">SAND (sp): Dark gray, well sorted, very fine, micaceous, dense, slightly moist, no odor detected.</p> <p style="text-align: center;">TOTAL DEPTH = 37.5 FEET</p>
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PROJECT NO. 831461
 CLIENT: JERVIS B. WEBB
 SEE LEGEND FOR LOGS AND TEST PITS
 FOR EXPLANATION OF SYMBOLS AND TERMS



Dec 20, 2001 - 16:34:52 I:\IT CORP\Jervis Webb\log\CB4A-1.dwg

Project Name <u>Jervis B. Webb</u> Location <u>5030 Firestone Blvd. South Gate, CA.</u> Drill Company <u>A&R</u> Driller <u>Eddie</u> Rig/Case <u>Limited Access</u> Method <u>HSA</u> Init. H ₂ O Level <u>NA</u> Static H ₂ O Level <u>NA</u> Total Hole Depth <u>38.5'</u> Borehole Dia. <u>8"</u> Fill Material <u>Bentonite (#8)</u> Screen Dia. <u>NA</u> Depth Interval <u>NA</u> Casing Dia. <u>NA</u> Depth Interval <u>NA</u> Filter Pack/Depth <u>NA</u> Seal/Depth/Type <u>NA</u> NOTES: -Augered through concrete. -Hand augered to 5' for utility clearance. -No groundwater encountered. -Backfilled with bentonite to surface. -Boring logged by cuttings and samples.		DEPTH IN FEET	OVA READING (ppm)	WELL SUMMARY/ BACKFILL	PENETRATION RESISTANCE (BLOWS/6 INCHES) SAMPLE	USCS	PROFILE	BORING NO. <u>CB-4A</u> COORDINATES <u>N Not Surveyed</u> <u>E Not Surveyed</u> FIELD GEOLOGIST <u>B. Tanaka</u> DATE BEGAN <u>12-14-01</u> EDITED BY <u>B. Tanaka</u> DATE FINISHED <u>12-14-01</u> CHECKED BY <u>P. Dinkmeyer</u> GROUND SURFACE EL. <u>Not meas.</u> R.G. NO. <u>4812</u> DESCRIPTION
	0	0					CONCRETE: 3" thick.	
	5	0			sm		SILTY SAND (sm): Dark brown, moist, loose, some clay and gravel, no odor detected.	
	10	0					SILTY SAND (sm): Same as above, slightly moist, no odor detected.	
	15	0			ml		CLAYEY SILT (ml): Dark gray/brown, moist, soft to firm, plastic, very fine, no odor detected.	
	20	0					SILT with sand (ml): Dark gray, slightly moist, fine, soft, micaceous, low plasticity, no odor detected.	
	25	0					SILT with sand (ml): Same as above, slightly moist, no odor detected.	
	30	0			cl		SILTY CLAY (cl): Dark gray, very fine, plastic, micaceous, slightly moist, no odor detected.	
	35	0			sm/sp		SILTY SAND to SAND (sm/sp): Dark gray, moist to slightly moist, dense, no odor detected.	

PROJECT NO. 831461
 CLIENT: JERVIS B. WEBB
 SEE LEGEND FOR LOGS AND TEST PITS
 FOR EXPLANATION OF SYMBOLS AND TERMS



003049

Dec 20, 2001 - 16:35:38 I:\IT CORP\Jarvis Webb\log\CB4A-2.dwg

Project Name <u>Jervis B. Webb</u> Location <u>5030 Firestone Blvd.</u> <u>South Gate, CA.</u> Drill Company <u>A&R</u> Driller <u>Eddie</u> Rig/Core <u>Limited Access</u> Method <u>HSA</u> Init. H ₂ O Level <u>NA</u> Static H ₂ O Level <u>NA</u> Total Hole Depth <u>38.5'</u> Borehole Dia. <u>8"</u> Fill Material <u>Bentonite (#8)</u> Screen Dia. <u>NA</u> Depth Interval <u>NA</u> Casing Dia. <u>NA</u> Depth Interval <u>NA</u> Filter Pack/Depth <u>NA</u> Seal/Depth/Type <u>NA</u> NOTES: - Augered through concrete. - Hand augered to 5' for utility clearance. - No groundwater encountered. - Backfilled with bentonite to surface. - Boring logged by cuttings and samples.		DEPTH IN FEET	OVA READING (ppm)	WELL SUMMARY/BACKFILL	PENETRATION RESISTANCE (BLOWS/6 INCHES) SAMPLE	USCS	PROFILE	BORING NO. <u>CB-4A</u> COORDINATES <u>N Not Surveyed</u> <u>E Not Surveyed</u> FIELD GEOLOGIST <u>B. Tanaka</u> DATE BEGAN <u>12-14-01</u> EDITED BY <u>B. Tanaka</u> DATE FINISHED <u>12-14-01</u> CHECKED BY <u>P. Dinkmeyer</u> GROUND SURFACE EL. <u>Not meas.</u> R.G. NO. <u>4812</u>
	35	0		40	sm/sp		DESCRIPTION	
				CB4A-37			SILTY SAND to SAND (sm/sp): Dark gray, moist to slightly moist, dense, no odor detected.	
		0		16	sp		SAND (sp): Dark gray, slightly moist, dense, very fine, well sorted, no odor detected.	
		0		30				
		0		35				
	40						TOTAL DEPTH = 38.5 FEET	
	45							
	50							
	55							
	60							
	65							
	70							

PROJECT NO. 831461
 CLIENT: JERVIS B. WEBB
 SEE LEGEND FOR LOGS AND TEST PITS
 FOR EXPLANATION OF SYMBOLS AND TERMS



003050

UNIFIED SOIL CLASSIFICATION SYSTEM (USCS) (ASTM D2488-84)

Description and Identification of Soils (Visual-Manual Procedure)

MAJOR DIVISIONS		GROUP SYMBOL	GRAPHIC SYMBOL	GROUP NAME	
COARSE- GRAINED SOILS <50% Passing #200 Sieve	GRAVELS	CLEAN GRAVELS	GW		Well-graded gravel Well-graded gravel with sand
			GP		Poorly graded gravel Poorly graded gravel with sand
		GRAVELS WITH FINES	GW-GM		Well-graded gravel with silt Well-graded gravel with silt and sand
			GW-GC		Well-graded gravel with clay Well-graded gravel with clay and sand
			GP-GM		Poorly graded gravel with silt Poorly graded gravel with silt and sand
			GP-GC		Poorly graded gravel with clay Poorly graded gravel with clay and sand
			GM		Silty gravel Silty gravel with sand
			GC		Clayey gravel Clayey gravel with sand
	SANDS	CLEAN SANDS	SW		Well-graded sand Well-graded sand with gravel
			SP		Poorly graded sand Poorly graded sand with gravel
		SANDS WITH FINES	SW-SM		Well-graded sand with silt Well-graded sand with silt and gravel
			SW-SC		Well-graded sand with clay Well-graded sand with clay and gravel
			SP-SM		Poorly graded sand with silt Poorly graded sand with silt and gravel
			SP-SC		Poorly graded sand with clay Poorly graded sand with clay and gravel
SM		Silty sand Silty sand with gravel			
SC		Clayey sand Clayey sand with gravel			
FINE-GRAINED SOILS >50% Passing #200 Sieve	SILTS AND CLAYS	CL		Lean clay • Lean clay with sand or gravel Sandy lean clay • Sandy lean clay with gravel Gravelly lean clay • Gravelly lean clay with sand	
		ML		Silt • Silt with sand or gravel Sandy silt • Sandy silt with gravel Gravelly silt • Gravelly silt with sand	
		CH		Fat clay • Fat clay with sand or gravel Sandy fat clay • Sandy fat clay with gravel Gravelly fat clay • Gravelly fat clay with sand	
		MH		Elastic silt • Elastic silt with sand or gravel Sandy elastic silt • Sandy elastic silt with gravel Gravelly elastic silt • Gravelly elastic silt with sand	
		OL/OH		Organic soil • Organic soil with sand or gravel Sandy organic soil • Sandy organic soil with gravel Gravelly organic soil • Gravelly organic soil with sand	

Note:

For soils with two possible identifications a borderline symbol is used. A borderline symbol, such as CL/ML, will be used only after every effort has been made to place the soil into a single group. The first group symbol in the borderline symbol represents the predominant soil type.

Adapted from:

1988 Annual Book of ASTM Standards,
Section 4, Volume 04.08

DENSITY/CONSISTENCY CLASSIFICATION

DENSITY OF COARSE-GRAINED SOILS

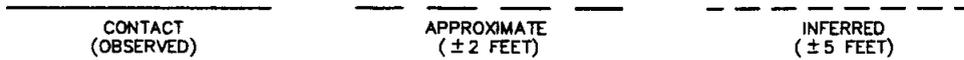
DENSITY	BLOWS PER FOOT*
VERY LOOSE	0-4
LOOSE	5-10
MEDIUM DENSE	11-30
DENSE	31-50
VERY DENSE	OVER 50

CONSISTENCY OF FINE-GRAINED SOILS

CONSISTENCY	BLOWS PER FOOT*
VERY SOFT	<2
SOFT	2-4
FIRM	5-8
STIFF	9-15
VERY STIFF	16-30
HARD	OVER 30

*Blows with a 140-pound hammer falling 30 inches required to drive the designated sampler 12 inches into undisturbed materials.

CONTACTS



SAMPLE TYPES

	2.0" O.D. MODIFIED CALIFORNIA SAMPLER	3.0" O.D. MODIFIED CALIFORNIA SAMPLER	S.P.T. SAMPLER	SHELBY TUBE	PITCHER SAMPLER	PLASTIC BAG	SACK	JAR	RING/THIN WALLED TUBE
RELATIVELY UNDISTURBED									
NO RECOVERY									
BULK									

GRAIN-SIZE DESCRIPTIONS (PER ASTM D2488-84)

- Boulders - Particles of rock that will not pass a 12-inch square opening.
- Cobbles - Particles of rock that will pass a 12-inch square opening and can be retained on a 3-inch sieve.
- Gravel - Particles of rock that will pass a 3-inch sieve and can be retained on a No. 4 (4.75 mm) sieve.
- Sand - Particles of rock that will pass a No. 4 sieve and can be retained on a No. 200 (75 μ m) sieve.
- Silt - Soil passing a No. 200 sieve that is nonplastic or very slightly plastic and that exhibits little or no strength when air dry.
- Clay - Soil passing a No. 200 sieve that can be made to exhibit plasticity within a range of water contents.

LEGEND3

DRAWING NUMBER

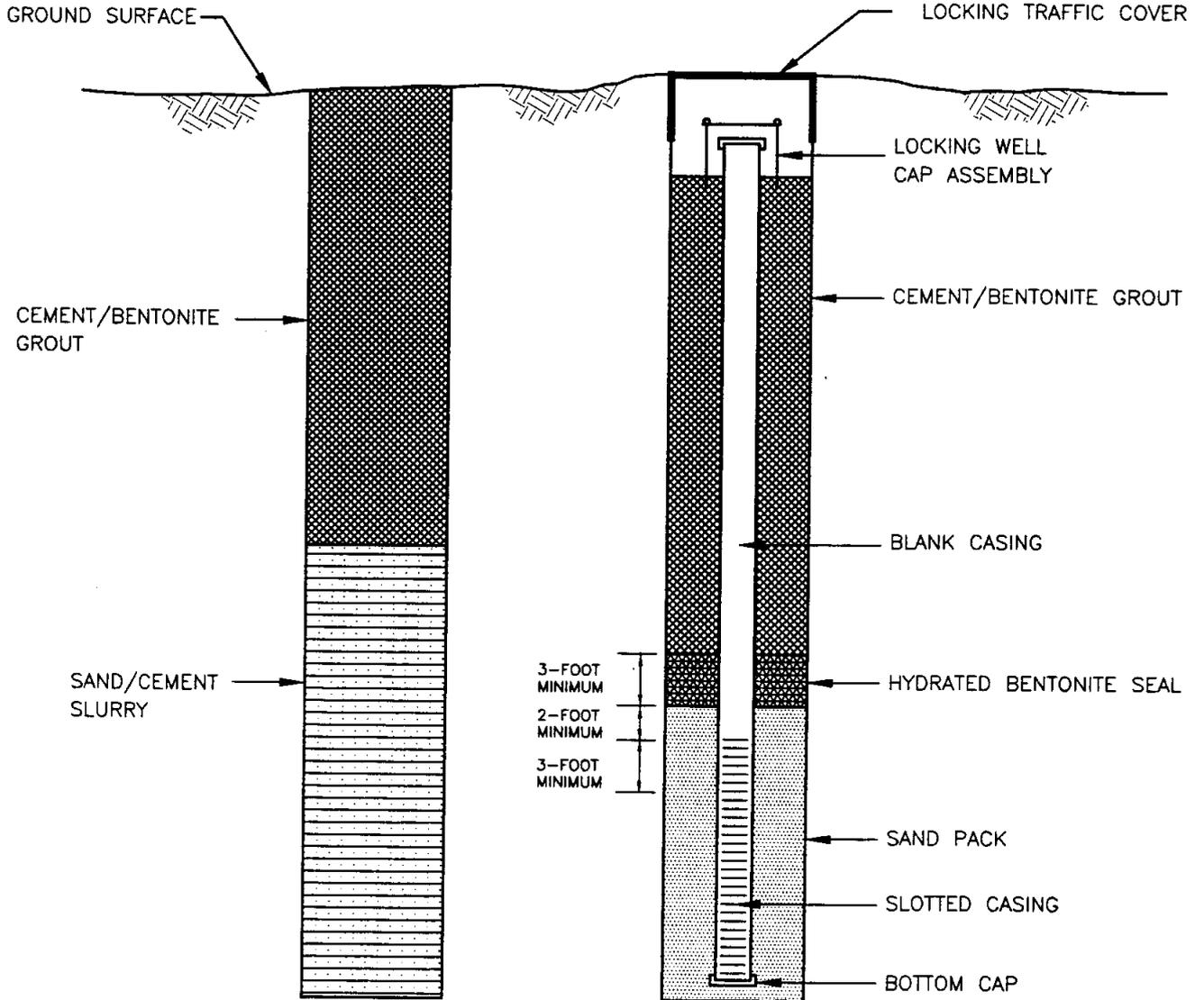
CHECKED BY
APPROVED BY

HDS

DRAWN BY

BOREHOLE ABANDONMENT

MONITORING WELL CONSTRUCTION



NOT TO SCALE

PROJECT NO. 831461

APPENDIX B

**LABORATORY ANALYTICAL REPORTS
AND CHAIN OF CUSTODY**

**Calscience
Environmental
Laboratories, Inc.**

December 14, 2001

Gary Cronk
IT Corporation
3347 Michelson Drive, Suite 200
Irvine, CA 92612-1692

Subject: **Calscience Work Order No.: 01-12-0765**
Client Reference: Jervis B. Webb

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 12/14/01 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,



Calscience Environmental
Laboratories, Inc.
Larry Lem
Project Manager

Michael J. Crisostomo
Quality Assurance Manager



Analytical Report
Page 1 of 1

LABORATORY ID: 01-12-0765

Method: Inorganic Constituents
Matrix: Soil/Solid

CLIENT: IT Corporation
PROJECT: Jarvis B. Webb

Sample ID	Results	
	Hexavalent Chromium (mg/kg)	Dilution Factor
CB1A@18'	0.24	1
Method Blank	ND	1

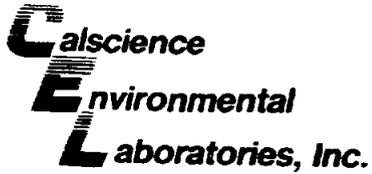
EPA Method: EPA 7196A/3060A
Date Analyzed: 12/14/01
Reporting Limit: 0.20

Quality Assurance and Control Information

Batch ID:	Spike Conc. ppm	LCS Result ppm	LCS Rec (%)	LCS Control Limits	MS Rec (%)	MSD Rec (%)	MS/MSD Control Limits	MS/MSD RPD (%)	RPD Control Limits
121401	0.50	0.50	100	80-120	95	94	70-130	0	0-25

Laboratory Notes

Key: ND=Not Detected at the reporting level, NA=Not applicable



ANALYTICAL REPORT

IT Corporation
 3347 Michelson Drive, Suite 200
 Irvine, CA 92612-1692

Date Received: 12/14/01
 Work Order No: 01-12-0765
 Preparation: Total Digestion
 Method: EPA 6010B

Project: Jervis B. Webb

Page 1 of 1

Client Sample Number	Lab Sample Number	Matrix	Date Collected	Date Prepared	Date Analyzed	QC Batch ID
CB1A@18'	01-12-0765-1	Solid	12/14/01	12/14/01	12/14/01	011214lcs2

Parameter	Result	RL	DF	Qual	Units
Chromium (Total)	14.1	0.2	1		mg/kg

Method Blank	Lab Sample Number	Matrix	Date Collected	Date Prepared	Date Analyzed	QC Batch ID
	097-01-002-2,972	Solid	N/A	12/14/01	12/14/01	011214lcs2

Parameter	Result	RL	DF	Qual	Units
Chromium (Total)	ND	0.250	1		mg/kg

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

ANALYTICAL REPORT

IT Corporation
3347 Michelson Drive, Suite 200
Irvine, CA 92612-1692

Date Received: 12/14/01
Work Order No: 01-12-0765
Preparation: EPA 5035
Method: EPA 8260B

Project: Jervis B. Webb

Page 1 of 4

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
CB3A@36'	01-12-0765-2	12/14/01	Solid	12/14/01	12/14/01	121401AS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	ND	24	1.21		ug/kg	1,3-Dichloropropane	ND	1.2	1.21		ug/kg
Benzene	ND	1.2	1.21		ug/kg	2,2-Dichloropropane	ND	6.1	1.21		ug/kg
Bromobenzene	ND	1.2	1.21		ug/kg	1,1-Dichloropropene	ND	2.4	1.21		ug/kg
Bromochloromethane	ND	2.4	1.21		ug/kg	c-1,3-Dichloropropene	ND	1.2	1.21		ug/kg
Bromodichloromethane	ND	1.2	1.21		ug/kg	t-1,3-Dichloropropene	ND	2.4	1.21		ug/kg
Bromoform	ND	6.1	1.21		ug/kg	Ethylbenzene	ND	1.2	1.21		ug/kg
Bromomethane	ND	6.1	1.21		ug/kg	2-Hexanone	ND	24	1.21		ug/kg
2-Butanone	ND	24	1.21		ug/kg	Isopropylbenzene	ND	1.2	1.21		ug/kg
n-Butylbenzene	ND	1.2	1.21		ug/kg	p-Isopropyltoluene	ND	1.2	1.21		ug/kg
sec-Butylbenzene	ND	1.2	1.21		ug/kg	Methylene Chloride	ND	12	1.21		ug/kg
tert-Butylbenzene	ND	1.2	1.21		ug/kg	4-Methyl-2-Pentanone	ND	24	1.21		ug/kg
Carbon Disulfide	ND	12	1.21		ug/kg	Naphthalene	ND	12	1.21		ug/kg
Carbon Tetrachloride	ND	1.2	1.21		ug/kg	n-Propylbenzene	ND	1.2	1.21		ug/kg
Chlorobenzene	ND	1.2	1.21		ug/kg	Styrene	ND	1.2	1.21		ug/kg
Chloroethane	ND	2.4	1.21		ug/kg	1,1,1,2-Tetrachloroethane	ND	1.2	1.21		ug/kg
Chloroform	ND	1.2	1.21		ug/kg	1,1,2,2-Tetrachloroethane	ND	2.4	1.21		ug/kg
Chloromethane	ND	1.2	1.21		ug/kg	Tetrachloroethene	ND	1.2	1.21		ug/kg
2-Chlorotoluene	ND	1.2	1.21		ug/kg	Toluene	ND	1.2	1.21		ug/kg
4-Chlorotoluene	ND	1.2	1.21		ug/kg	1,2,3-Trichlorobenzene	ND	2.4	1.21		ug/kg
Dibromochloromethane	ND	2.4	1.21		ug/kg	1,2,4-Trichlorobenzene	ND	2.4	1.21		ug/kg
1,2-Dibromo-3-Chloropropane	ND	6.1	1.21		ug/kg	1,1,1-Trichloroethane	ND	1.2	1.21		ug/kg
1,2-Dibromoethane	ND	1.2	1.21		ug/kg	1,1,2-Trichloroethane	ND	1.2	1.21		ug/kg
Dibromomethane	ND	1.2	1.21		ug/kg	Trichloroethene	24	2	1.21		ug/kg
1,2-Dichlorobenzene	ND	1.2	1.21		ug/kg	Trichlorofluoromethane	ND	12	1.21		ug/kg
1,3-Dichlorobenzene	ND	1.2	1.21		ug/kg	1,2,3-Trichloropropane	ND	2.4	1.21		ug/kg
1,4-Dichlorobenzene	ND	1.2	1.21		ug/kg	1,2,4-Trimethylbenzene	ND	2.4	1.21		ug/kg
Dichlorodifluoromethane	ND	2.4	1.21		ug/kg	1,3,5-Trimethylbenzene	ND	2.4	1.21		ug/kg
1,1-Dichloroethane	ND	1.2	1.21		ug/kg	Vinyl Acetate	ND	12	1.21		ug/kg
1,2-Dichloroethane	ND	1.2	1.21		ug/kg	Vinyl Chloride	ND	1.2	1.21		ug/kg
1,1-Dichloroethene	ND	1.2	1.21		ug/kg	p/m-Xylene	ND	2.4	1.21		ug/kg
c-1,2-Dichloroethene	ND	1.2	1.21		ug/kg	o-Xylene	ND	1.2	1.21		ug/kg
t-1,2-Dichloroethene	ND	1.2	1.21		ug/kg	Methyl-t-Butyl Ether (MTBE)	ND	2.4	1.21		ug/kg
1,2-Dichloropropane	ND	1.2	1.21		ug/kg						
Surrogates:	REC (%)	Control Limits	Qual		Surrogates	REC (%)	Control Limits	Qual			
Dibromofluoromethane	108	65-157			Toluene-d8	97	51-144				
1,4-Bromofluorobenzene	98	49-141									

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

ANALYTICAL REPORT

IT Corporation
3347 Michelson Drive, Suite 200
Irvine, CA 92612-1692

Date Received: 12/14/01
Work Order No: 01-12-0765
Preparation: EPA 5035
Method: EPA 8260B

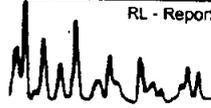
Project: Jervis B. Webb

Page 2 of 4

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
CB4A@37'	01-12-0765-3	12/14/01	Solid	12/14/01	12/14/01	121401AS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	ND	24	1.18		ug/kg	1,3-Dichloropropane	ND	1.2	1.18		ug/kg
Benzene	ND	1.2	1.18		ug/kg	2,2-Dichloropropane	ND	5.9	1.18		ug/kg
Bromobenzene	ND	1.2	1.18		ug/kg	1,1-Dichloropropene	ND	2.4	1.18		ug/kg
Bromochloromethane	ND	2.4	1.18		ug/kg	c-1,3-Dichloropropene	ND	1.2	1.18		ug/kg
Bromodichloromethane	ND	1.2	1.18		ug/kg	t-1,3-Dichloropropene	ND	2.4	1.18		ug/kg
Bromoform	ND	5.9	1.18		ug/kg	Ethylbenzene	ND	1.2	1.18		ug/kg
Bromomethane	ND	5.9	1.18		ug/kg	2-Hexanone	ND	24	1.18		ug/kg
2-Butanone	ND	24	1.18		ug/kg	Isopropylbenzene	ND	1.2	1.18		ug/kg
n-Butylbenzene	ND	1.2	1.18		ug/kg	p-Isopropyltoluene	ND	1.2	1.18		ug/kg
sec-Butylbenzene	ND	1.2	1.18		ug/kg	Methylene Chloride	ND	12	1.18		ug/kg
tert-Butylbenzene	ND	1.2	1.18		ug/kg	4-Methyl-2-Pentanone	ND	24	1.18		ug/kg
Carbon Disulfide	ND	12	1.18		ug/kg	Naphthalene	ND	12	1.18		ug/kg
Carbon Tetrachloride	ND	1.2	1.18		ug/kg	n-Propylbenzene	ND	1.2	1.18		ug/kg
Chlorobenzene	ND	1.2	1.18		ug/kg	Styrene	ND	1.2	1.18		ug/kg
Chloroethane	ND	2.4	1.18		ug/kg	1,1,1,2-Tetrachloroethane	ND	1.2	1.18		ug/kg
Chloroform	ND	1.2	1.18		ug/kg	1,1,2,2-Tetrachloroethane	ND	2.4	1.18		ug/kg
Chloromethane	ND	1.2	1.18		ug/kg	Tetrachloroethene	ND	1.2	1.18		ug/kg
2-Chlorotoluene	ND	1.2	1.18		ug/kg	Toluene	ND	1.2	1.18		ug/kg
4-Chlorotoluene	ND	1.2	1.18		ug/kg	1,2,3-Trichlorobenzene	ND	2.4	1.18		ug/kg
Dibromochloromethane	ND	2.4	1.18		ug/kg	1,2,4-Trichlorobenzene	ND	2.4	1.18		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.9	1.18		ug/kg	1,1,1-Trichloroethane	ND	1.2	1.18		ug/kg
1,2-Dibromoethane	ND	1.2	1.18		ug/kg	1,1,2-Trichloroethane	ND	1.2	1.18		ug/kg
Dibromomethane	ND	1.2	1.18		ug/kg	Trichloroethene	ND	2.4	1.18		ug/kg
1,2-Dichlorobenzene	ND	1.2	1.18		ug/kg	Trichlorofluoromethane	ND	12	1.18		ug/kg
1,3-Dichlorobenzene	ND	1.2	1.18		ug/kg	1,2,3-Trichloropropane	ND	2.4	1.18		ug/kg
1,4-Dichlorobenzene	ND	1.2	1.18		ug/kg	1,2,4-Trimethylbenzene	ND	2.4	1.18		ug/kg
Dichlorodifluoromethane	ND	2.4	1.18		ug/kg	1,3,5-Trimethylbenzene	ND	2.4	1.18		ug/kg
1,1-Dichloroethane	ND	1.2	1.18		ug/kg	Vinyl Acetate	ND	12	1.18		ug/kg
1,2-Dichloroethane	ND	1.2	1.18		ug/kg	Vinyl Chloride	ND	1.2	1.18		ug/kg
1,1-Dichloroethene	ND	1.2	1.18		ug/kg	p/m-Xylene	ND	2.4	1.18		ug/kg
c-1,2-Dichloroethene	ND	1.2	1.18		ug/kg	o-Xylene	ND	1.2	1.18		ug/kg
t-1,2-Dichloroethene	ND	1.2	1.18		ug/kg	Methyl-t-Butyl Ether (MTBE)	ND	2.4	1.18		ug/kg
1,2-Dichloropropane	ND	1.2	1.18		ug/kg						
Surrogates:	REC (%)	Control Limits	Qual		Surrogates:	REC (%)	Control Limits	Qual			
Dibromofluoromethane	114	65-157			Toluene-d8	101	51-144				
1,4-Bromofluorobenzene	88	49-141									

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers



ANALYTICAL REPORT

IT Corporation
3347 Michelson Drive, Suite 200
Irvine, CA 92612-1692

Date Received: 12/14/01
Work Order No: 01-12-0765
Preparation: EPA 5035
Method: EPA 8260B

Project: Jervis B. Webb

Page 3 of 4

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	095-01-025-3,529	N/A	Solid	N/A	12/14/01	121401AS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	ND	20	1		ug/kg	1,3-Dichloropropane	ND	1.0	1		ug/kg
Benzene	ND	1.0	1		ug/kg	2,2-Dichloropropane	ND	5.0	1		ug/kg
Bromobenzene	ND	1.0	1		ug/kg	1,1-Dichloropropene	ND	2.0	1		ug/kg
Bromochloromethane	ND	2.0	1		ug/kg	c-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromodichloromethane	ND	1.0	1		ug/kg	t-1,3-Dichloropropene	ND	2.0	1		ug/kg
Bromoform	ND	5.0	1		ug/kg	Ethylbenzene	ND	1.0	1		ug/kg
Bromomethane	ND	5.0	1		ug/kg	2-Hexanone	ND	20	1		ug/kg
2-Butanone	ND	20	1		ug/kg	Isopropylbenzene	ND	1.0	1		ug/kg
n-Butylbenzene	ND	1.0	1		ug/kg	p-Isopropyltoluene	ND	1.0	1		ug/kg
sec-Butylbenzene	ND	1.0	1		ug/kg	Methylene Chloride	ND	10	1		ug/kg
tert-Butylbenzene	ND	1.0	1		ug/kg	4-Methyl-2-Pentanone	ND	20	1		ug/kg
Carbon Disulfide	ND	10	1		ug/kg	Naphthalene	ND	10	1		ug/kg
Carbon Tetrachloride	ND	1.0	1		ug/kg	n-Propylbenzene	ND	1.0	1		ug/kg
Chlorobenzene	ND	1.0	1		ug/kg	Styrene	ND	1.0	1		ug/kg
Chloroethane	ND	2.0	1		ug/kg	1,1,1,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloroform	ND	1.0	1		ug/kg	1,1,2,2-Tetrachloroethane	ND	2.0	1		ug/kg
Chloromethane	ND	1.0	1		ug/kg	Tetrachloroethene	ND	1.0	1		ug/kg
2-Chlorotoluene	ND	1.0	1		ug/kg	Toluene	ND	1.0	1		ug/kg
4-Chlorotoluene	ND	1.0	1		ug/kg	1,2,3-Trichlorobenzene	ND	2.0	1		ug/kg
Dibromochloromethane	ND	2.0	1		ug/kg	1,2,4-Trichlorobenzene	ND	2.0	1		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.0	1		ug/kg	1,1,1-Trichloroethane	ND	1.0	1		ug/kg
1,2-Dibromoethane	ND	1.0	1		ug/kg	1,1,2-Trichloroethane	ND	1.0	1		ug/kg
Dibromomethane	ND	1.0	1		ug/kg	Trichloroethene	ND	2.0	1		ug/kg
1,2-Dichlorobenzene	ND	1.0	1		ug/kg	Trichlorofluoromethane	ND	10	1		ug/kg
1,3-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,3-Trichloropropane	ND	2.0	1		ug/kg
1,4-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,4-Trimethylbenzene	ND	2.0	1		ug/kg
Dichlorodifluoromethane	ND	2.0	1		ug/kg	1,3,5-Trimethylbenzene	ND	2.0	1		ug/kg
1,1-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Acetate	ND	10	1		ug/kg
1,2-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Chloride	ND	1.0	1		ug/kg
1,1-Dichloroethene	ND	1.0	1		ug/kg	p/m-Xylene	ND	2.0	1		ug/kg
c-1,2-Dichloroethene	ND	1.0	1		ug/kg	o-Xylene	ND	1.0	1		ug/kg
t-1,2-Dichloroethene	ND	1.0	1		ug/kg	Methyl-t-Butyl Ether (MTBE)	ND	2.0	1		ug/kg
1,2-Dichloropropane	ND	1.0	1		ug/kg						
Surrogates:	REC (%)	Control Limits	Qual		Surrogates	REC (%)	Control Limits	Qual			
Dibromofluoromethane	103	65-157			Toluene-d8	97	51-144				
1,4-Bromofluorobenzene	93	49-141									

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers

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ANALYTICAL REPORT

IT Corporation
3347 Michelson Drive, Suite 200
Irvine, CA 92612-1692

Date Received: 12/14/01
Work Order No: 01-12-0765
Preparation: EPA 5035
Method: EPA 8260B

Project: Jervis B. Webb

Page 4 of 4

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	095-01-025-3,530	N/A	Solid	N/A	12/14/01	121401AS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	ND	20	1		ug/kg	1,3-Dichloropropane	ND	1.0	1		ug/kg
Benzene	ND	1.0	1		ug/kg	2,2-Dichloropropane	ND	5.0	1		ug/kg
Bromobenzene	ND	1.0	1		ug/kg	1,1-Dichloropropene	ND	2.0	1		ug/kg
Bromochloromethane	ND	2.0	1		ug/kg	c-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromodichloromethane	ND	1.0	1		ug/kg	t-1,3-Dichloropropene	ND	2.0	1		ug/kg
Bromoform	ND	5.0	1		ug/kg	Ethylbenzene	ND	1.0	1		ug/kg
Bromomethane	ND	5.0	1		ug/kg	2-Hexanone	ND	20	1		ug/kg
2-Butanone	ND	20	1		ug/kg	Isopropylbenzene	ND	1.0	1		ug/kg
n-Butylbenzene	ND	1.0	1		ug/kg	p-Isopropyltoluene	ND	1.0	1		ug/kg
sec-Butylbenzene	ND	1.0	1		ug/kg	Methylene Chloride	ND	10	1		ug/kg
tert-Butylbenzene	ND	1.0	1		ug/kg	4-Methyl-2-Pentanone	ND	20	1		ug/kg
Carbon Disulfide	ND	10	1		ug/kg	Naphthalene	ND	10	1		ug/kg
Carbon Tetrachloride	ND	1.0	1		ug/kg	n-Propylbenzene	ND	1.0	1		ug/kg
Chlorobenzene	ND	1.0	1		ug/kg	Styrene	ND	1.0	1		ug/kg
Chloroethane	ND	2.0	1		ug/kg	1,1,1,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloroform	ND	1.0	1		ug/kg	1,1,2,2-Tetrachloroethane	ND	2.0	1		ug/kg
Chloromethane	ND	1.0	1		ug/kg	Tetrachloroethane	ND	1.0	1		ug/kg
2-Chlorotoluene	ND	1.0	1		ug/kg	Toluene	ND	1.0	1		ug/kg
4-Chlorotoluene	ND	1.0	1		ug/kg	1,2,3-Trichlorobenzene	ND	2.0	1		ug/kg
Dibromochloromethane	ND	2.0	1		ug/kg	1,2,4-Trichlorobenzene	ND	2.0	1		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.0	1		ug/kg	1,1,1-Trichloroethane	ND	1.0	1		ug/kg
1,2-Dibromoethane	ND	1.0	1		ug/kg	1,1,2-Trichloroethane	ND	1.0	1		ug/kg
Dibromomethane	ND	1.0	1		ug/kg	Trichloroethene	ND	2.0	1		ug/kg
1,2-Dichlorobenzene	ND	1.0	1		ug/kg	Trichlorofluoromethane	ND	10	1		ug/kg
1,3-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,3-Trichloropropane	ND	2.0	1		ug/kg
1,4-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,4-Trimethylbenzene	ND	2.0	1		ug/kg
Dichlorodifluoromethane	ND	2.0	1		ug/kg	1,3,5-Trimethylbenzene	ND	2.0	1		ug/kg
1,1-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Acetate	ND	10	1		ug/kg
1,2-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Chloride	ND	1.0	1		ug/kg
1,1-Dichloroethene	ND	1.0	1		ug/kg	p/m-Xylene	ND	2.0	1		ug/kg
c-1,2-Dichloroethene	ND	1.0	1		ug/kg	o-Xylene	ND	1.0	1		ug/kg
t-1,2-Dichloroethene	ND	1.0	1		ug/kg	Methyl-t-Butyl Ether (MTBE)	ND	2.0	1		ug/kg
1,2-Dichloropropane	ND	1.0	1		ug/kg						
Surrogates:	REC (%)	Control Limits	Qual			Surrogates	REC (%)	Control Limits	Qual		
Dibromofluoromethane	107	65-157				Toluene-d8	93	51-144			
1,4-Bromofluorobenzene	84	49-141									

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501



0765

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD*

Reference Document No. 570209
Page 1 of ___

Project Name/No. ¹ Jervis B Webb
 Sample Team Members ² Brian Tavares
 Profit Center No. ³ _____
 Project Manager ⁴ GARY CRANK
 Purchase Order No. ⁶ _____
 Required Report Date ¹¹ _____

Samples Shipment Date ⁷ 12/14/01
 Lab Destination ⁸ Cal Science
 Lab Contact ⁹ _____
 Project Contact/Phone ¹² 949 660-7511
 Carrier/Waybill No. ¹³ _____

Bill to: ⁵ IT Corp
3347 Michelson Dr #200
IRVINE CA 92612
 Report to: ¹⁰ GARY CRANK
as above

ONE CONTAINER PER LINE

Sample Number ¹⁴	Sample Description/Type ¹⁵	Date/Time Collected ¹⁶	Container Type ¹⁷	Sample Volume ¹⁸	Pre-servative ¹⁹	Requested Testing Program ²⁰	Condition on Receipt ²¹	Disposal Record No. ²²
CB1A018	SOIL	12/14/01 1015	Brass Sleeve	1	NONE	Total/Chrome Hex Chrome (VI)		
CB3A036	SOIL	12/14/01 1240	capcase	4	"	VOC 8260B		
CB4A037	SOIL	12/14/01 1430	Encore	4	"	VOC 8260B		

Special Instructions: ²³ _____

Possible Hazard Identification: ²⁴
 Non-hazard Flammable Skin Irritant Poison B Unknown
 Sample Disposal: ²⁵
 Return to Client Disposal by Lab Archive (mos.)

Turnaround Time Required: ²⁶
 Normal Rush
 QC Level: ²⁷
 I. II. III. Project Specific (specify): _____

1. Relinquished by ²⁸ (Signature/Affiliation) <u>B. Tavares</u>	Date: <u>12/14/01</u> Time: <u>1435</u>	1. Received by ²⁸ (Signature/Affiliation) <u>[Signature]</u>	Date: <u>12/14/01</u> Time: <u>1434</u>
2. Relinquished by (Signature/Affiliation)	Date: Time:	2. Received by (Signature/Affiliation)	Date: Time:
3. Relinquished by (Signature/Affiliation)	Date: <u>12/14/01</u> Time: <u>1530</u>	3. Received by (Signature/Affiliation) <u>[Signature]</u>	Date: <u>12/14/01</u> Time: <u>15:30</u>

Comments: ²⁹ _____

White: To accompany samples
Yellow: Field copy
* See back of form for special instructions.

003062